This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claim 1 (currently amended): A method for managing the feed of a new coil

into a continuous inline processing plant of a band-type product, said plant

being supplied with successive bands and including means for controlling the

continuous running of the band successively into an inlet section, an upstream

accumulator, a processing section, a downstream section and an outlet section,

the connection of the tail of a first coil when completely unwound with the head

of a next coil being carried out in the inlet section of the plant in two successive

stage cycles, respectively a first preparation cycle for preparing the ends,

respectively tail and head ends of both bands, for the junction thereof and a

second junction cycle for joining both facing edges of said ends,

a method wherein the running of the band is stopped or, at least, slowed down

in the inlet section for a period of time necessary to carry out all the connection

operations, and the processing section is supplied, during the stoppage time,

with a band length set aside beforehand in the upstream accumulator for

carrying on the process at a normal running speed,

Page 2 of 28

eharacterised characterized in that joining the facing edges of the ends of both bands is performed in at least two portions of the inlet section, respectively a first portion and a second portion, between which is located an intermediate accumulator for setting aside a variable band length, and that the time period necessary to perform all the connection operations of both bands is divided into at least two time periods respectively a first time period corresponding to the first preparation cycle and to a first phase of the second junction cycle of the facing edges of both bands, and a second time period corresponding to a second phase of the second junction cycle, said both time periods being separate by a time interval of variable duration corresponding to the running of the band length set aside in the intermediate accumulator.

Claim 2 (currently amended): The method according to claim 1, wherein the junction of both bands is performed by welding in a welding machine, the second junction cycle of the facing edges of the ends of both bands including a welding operation followed by at least one finishing operation of the welded junction, characterized characterized in that the welding machine is located in the first portion of the inlet section, the welding operation being processed at the end of the first time period in a first phase of the second junction cycle, and that the tail of the first band and its welded junction with the head of the next band is then passed in the intermediate accumulator, the running being stopped again in the second portion (4) of the inlet section to perform at least one finishing operation during a second time period of the second junction cycle.

Claim 3 (currently amended): The method according to claim 1, wherein the junction of both bands is performed by welding in a welding machine, the second junction cycle of the facing edges of the ends of both bands including a welding operation followed by at least one finishing operation of the welded junction, characterised characterized in that the welding machine is located in the second portion of the inlet section, that, in a first phase of the second junction cycle, the tail of the first band is temporarily joined with the head of the next band at the end of the first time period-of the general connection process, and that the running of the band is then resumed to bring said temporary junction into the second portion of the inlet section by passing through the intermediate accumulator, the running being stopped again during the second time period of the general connection process in order to perform the welding operation itself and at least one finishing operation in a second phase of the second junction cycle.

Claim 4 (currently amended): The method according to claim 1, characterised characterized in that, before completion of the unwinding of the first coil, band lengths are set aside in the upstream accumulator and in the intermediate accumulator, corresponding to the maximum capacity thereof.

Claim 5 (currently amended): The method according to claim 4, characterised characterized in that, during the first time period of the general connection process, the processing section is supplied at normal speed from the upstream accumulator, and that, at the same time, the passage, into the upstream

accumulator from the intermediate accumulator, of a band length able to

replace at least one portion of the length passing into the processing section is

controlled.

Claim 6 (currently amended): The method according to claim 1, characterised

characterized in that, during the second time period of the general connection

process, the processing section is supplied at normal speed from the upstream

accumulator, and that the running, through the first portion of the inlet section,

of the band length necessary for restoring the intermediate accumulator to the

maximum capacity thereof, is controlled.

Claim 7 (currently amended): The method according to claim 5, characterised

<u>characterized</u> in that the intermediate accumulator (5) has a capacity

corresponding at least to the band length running through the processing

section (7) at the normal speed for the duration (T.sub.1) of the first time period

of the general connection process.

Claim 8 (currently amended): The method according to claim 7, characterised

characterized in that, once the junction has been stopped in the second portion

of the inlet section, the unwinding speed of the new coil is increased for filling,

at least partially, the intermediate accumulator, so that, according to the length

of the new coil, the tail thereof can be stopped in the first portion of the inlet

section for the junction thereof thereof with the head of a third coil, after setting

Page 5 of 28

aside a band length corresponding at least to the first time period of the general

connection process.

Claim 9 (currently amended): The method according to claim 5, characterised

characterized in that the upstream accumulator has a capacity corresponding

at least to the band length running through the processing section at normal

speed during the second time period of the general connection process.

Claim 10 (currently amended): The method according to claim 1, characterised

characterized in that the filling rate of the intermediate accumulator is managed

relative to the length of each new coil so as to restore the upstream

accumulator to the maximum capacity thereof after each time period of the

general connection process.

Claim 11 (currently amended): The method according to claim 1, characterised

characterized in that, at the end of the second time period of the general

connection process, the welding spot is annealed.

Claim 12 (withdrawn-currently amended): A processing plant of a band-type

product for performing the method of claim 1, wherein the outlet section

is fitted with means for discharging the coils once completely unwound,

the first portion including at least preparation means for preparing before joining

the tail of a coil when completely unwound and the head of a new coil, and at

Page 6 of 28

least the second portion including at least means for finishing the welded

junction, a welding tool being placed in either of said both portions of the inlet

section.

Claim 13 (withdrawn-currently amended): The processing plant according to

claim 12, characterised characterized in that the first portion of the processing

section including at least means for preparing the tail and the head of two

successive bands, positioning means and a welding tool, the second portion

including at least means for finishing the welded spot.

Claim 14 (withdrawn-currently amended): The processing plant according to

claim 12, characterised characterized in that the first portion of the inlet section

including at least means (13, 13') for preparing the tail and the head of two

successive bands (M, M') and means for joining temporarily said tail and head,

and that the second portion of the inlet section includes at least one welding

tool associated with means for positioning and eliminating the temporary

junction and means for finishing the welded spot.

Claim 15 (withdrawn-currently amended): The processing plant according to

claim 12, characterised characterized in that the second portion of the inlet

section includes means for annealing the welded spot.

Claim 16 (currently amended): The method according to claim 2, characterised

characterized in that, before completion of the completely unwinding of the first

Page 7 of 28

coil, band lengths are set aside in the upstream accumulator and in the

intermediate accumulator, corresponding to the maximum capacity thereof.

Claim 17 (currently amended): The method according to claim 3, characterised

characterized in that, before completion of the completely unwinding of the first

coil, band lengths are set aside in the upstream accumulator and in the

intermediate accumulator, corresponding to the maximum capacity thereof.

Claim 18 (currently amended): The method according to claim 16,

characterised characterized in that, during the first time period of the general

connection process, the processing section is supplied at normal speed from

the upstream accumulator, and that, at the same time, the passage, into the

upstream accumulator from the intermediate accumulator, of a band length

able to replace at least one portion of the length passing into the processing

section is controlled.

Claim 19 (currently amended): The method according to claim 17,

characterised characterized in that, during the first time period of the general

connection process, the processing section is supplied at normal speed from

the upstream accumulator, and that, at the same time, the passage, into the

upstream accumulator from the intermediate accumulator, of a band length

able to replace at least one portion of the length passing into the processing

section is controlled.

Page 8 of 28

Claim 20 (currently amended): The method according to claim 16, characterised characterized in that, during the second time period of the general connection process, the processing section is supplied at normal speed from the upstream accumulator, and that the running, through the first portion of the inlet section, of the band length necessary for restoring the intermediate accumulator to the maximum capacity thereof, is controlled.

Claim 21 (currently amended): The method according to claim 17, characterised characterized in that, during the second time period of the general connection process, the processing section is supplied at normal speed from the upstream accumulator, and that the running, through the first portion of the inlet section, of the band length necessary for restoring the intermediate accumulator to the maximum capacity thereof, is controlled.

Claim 22 (currently amended): The method according to claim 18, characterised characterized in that the intermediate accumulator has a capacity corresponding at least to the band length running through the processing section at the normal speed for the duration of the first time period of the general connection process.

Claim 23 (currently amended): The method according to claim 19, characterised characterized in that the intermediate accumulator has a capacity corresponding at least to the band length running through the processing

section at the normal speed for the duration of the first time period of the general connection process.

Claim 24 (currently amended): The method according to claim 6, characterised characterized in that the intermediate accumulator has a capacity corresponding at least to the band length running through the processing section at the normal speed for the duration of the first time period of the general connection process.

Claim 25 (currently amended): The method according to claim 20, characterised characterized in that the intermediate accumulator has a capacity corresponding at least to the band length running through the processing section at the normal speed for the duration of the first time period of the general connection process.

Claim 26 (currently amended): The method according to claim 21, characterised characterized in that the intermediate accumulator has a capacity corresponding at least to the band length running through the processing section at the normal speed for the duration of the first time period of the general connection process.

Claim 27 (currently amended): The method according to claim 22, characterised characterized in that, once the junction has been stopped in the second portion of the inlet section, the unwinding speed of the new coil is

increased for filling, at least partially, the intermediate accumulator, so that, according to the length of the new coil, the tail thereof can be stopped in the first portion of the inlet section for the junction thereof with the head of a third coil, after setting aside a band length corresponding at least to the first time period of the general connection process.

Claim 28 (currently amended): The method according to claim 23, eharacterised characterized in that, once the junction has been stopped in the second portion of the inlet section, the unwinding speed of the new coil is increased for filling, at least partially, the intermediate accumulator, so that, according to the length of the new coil, the tail thereof can be stopped in the first portion of the inlet section for the junction thereof with the head of a third coil, after setting aside a band length corresponding at least to the first time period of the general connection process.

Claim 29 (currently amended): The method according to claim 24, characterised characterized in that, once the junction has been stopped in the second portion of the inlet section, the unwinding speed of the new coil is increased for filling, at least partially, the intermediate accumulator, so that, according to the length of the new coil, the tail thereof can be stopped in the first portion of the inlet section for the junction thereof with the head of a third coil, after setting aside a band length corresponding at least to the first time period of the general connection process.

Claim 30 (currently amended): The method according to claim 25, characterised characterized in that, once the junction has been stopped in the second portion of the inlet section, the unwinding speed of the new coil is increased for filling, at least partially, the intermediate accumulator, so that, according to the length of the new coil, the tail thereof can be stopped in the first portion of the inlet section for the junction thereof with the head of a third coil, after setting aside a band length corresponding at least to the first time period of the general connection process.

Claim 31 (currently amended): The method according to claim 26, characterised characterized in that, once the junction has been stopped in the second portion of the inlet section, the unwinding speed of the new coil is increased for filling, at least partially, the intermediate accumulator, so that, according to the length of the new coil, the tail thereof can be stopped in the first portion of the inlet section for the junction thereof with the head of a third coil, after setting aside a band length corresponding at least to the first time period of the general connection process.

Claim 32 (currently amended): The method according to claim 18, characterised characterized in that the upstream accumulator has a capacity corresponding at least to the band length running through the processing section at normal speed during the second time period of the general connection process. Reply to Office Action of May 15, 2009

Claim 33 (currently amended): The method according to claim 19,

characterised characterized in that the upstream accumulator has a capacity

corresponding at least to the band length running through the processing

section at normal speed during the second time period of the general

connection process.

Claim 34 (currently amended): The method according to claim 6, characterised

characterized in that the upstream accumulator has a capacity corresponding

at least to the band length running through the processing section at normal

speed during the second time period of the general connection process.

Claim 35 (currently amended): The method according to claim 20,

characterised characterized in that the upstream accumulator has a capacity

corresponding at least to the band length running through the processing

section at normal speed during the second time period of the general

connection process.

Claim 36 (currently amended): The method according to claim 21,

characterised characterized in that the upstream accumulator has a capacity

corresponding at least to the band length running through the processing

section at normal speed during the second time period of the general

connection process.

Page 13 of 28

Claim 37 (withdrawn-currently amended): The processing plant according to

claim 13, characterised characterized in that the second portion of the inlet

section includes means for annealing the welded spot.

Claim 38 (withdrawn-currently amended): The processing plant according to

claim 14, characterised characterized in that the second portion of the inlet

section includes means for annealing the welded spot.